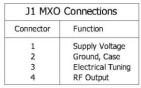
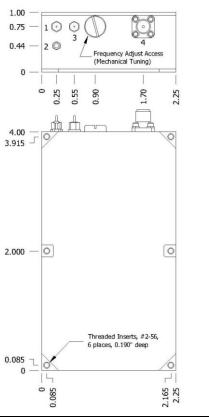
OUTPUT Frequency 1 GHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging  $1 \times 10^{-6}$  first year after 30 days operating, typical  $5 \times 10^{-7}$  second year, typical  $3 \times 10^{-7}$  per year thereafter, typical Phase Noise L(f), typical 100 Hz -109 dBc/Hz 1 KHz -136 dBc/Hz 10 KHz -153 dBc/Hz 100 KHz -154 dBc/Hz **Temperature Stability** ±5 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C) Harmonics ≤ -25 dBc Sub-Harmonics ≤ -60 dBc **Spurious** ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions 2.25 x 4 x 1" Connectors SMA(f) and solder pins Packaging Nickel-plated machined aluminum housing - J1 Mounting Threaded inserts on base, #2-56, 6 places **POWER REQUIREMENTS** Warm-Up Power ≤ 9.5 Watts for 5 minutes **Total Power** ≤ 6.0 Watts at +25°C Supply Voltage +15 VDC ±5%

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ADJUSTMENT
Mechanical Tuning
$\pm 4 \times 10^{-6}$
Electrical Tuning
$\pm 5 \times 10^{-7}$ , $\pm 5 \text{ VDC}$
Negative slope
CRYSTAL
100 MHz SC-cut (x10) OTHER
Label
Use conventional label with the
following information:
501-24146 (Current Rev.)
1 GHz MXO-FR
+15 VDC
Serial # - Date Code
(Mark connectors with function) Test Data
Output Level
Phase Noise
Temperature Stability
Harmonics, Subs, Spurious
Power – Warm-up and Total
Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-22-11	Initial Release	PAC	
Α	01-16-12	Phase Noise, MT	PAC	





Wenzel Associates, Inc.									
<sup>Title:</sup> 1 GHz Multiplied Crystal Oscillator (MXO-FR)									
<sup>P/N:</sup> <b>501-24146</b>	Rev:	Date 0	1-16-12	Drawn:	Ref:				
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1				